

Missouri S&T Nuclear Engineering Faculty Development Program (2012-2015)

EXECUTIVE SUMMARY:

Missouri University of Science & Technology (S&T) is pleased to submit this Faculty Development proposal for a new probationary Nuclear Engineering (NE) tenure-track faculty member. S&T will provide a cash matching amount of \$150,000. In addition, the USNRC funding will be leveraged by a cash gift of \$50,000 per year from Exelon Nuclear Corporation to support faculty development, and laboratory upgrade in NE. The faculty development grant will greatly help in preparing the new faculty member for obtaining tenure at S&T at the end of his six year probationary period. The grant will also help in the retention of the new faculty member by providing him with resources to build his research program, including graduate student support, laboratory equipment, travel to professional meetings, and to publish in refereed journals. Additionally, the research expertise of the new faculty member will strengthen the nuclear engineering program at S&T by reinforcing our current research areas in radiochemistry, nuclear forensics, and health physics. In summary, this faculty development grant will help mentor and retain the new faculty member, and increase our tenured/tenure-track faculty from 6 to 7, reducing our student/faculty ratio from 31 to 27.

Principal Investigator: Arvind Kumar, kumar@mst.edu